


<b>TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b>		ATTORNEY'S DOCKET NUMBER 58398 (52607)
INTERNATIONAL APPLICATION NO. US03/36880		U.S. APPLICATION NO. (if known, see 37 CFR 1.5) <b>10/535351</b>
INTERNATIONAL FILING DATE 18 November 2003		PRIORITY DATE CLAIMED 18 November 2002
TITLE OF INVENTION     ACTIVATION OF PEPTIDE PRODRUGS BY HK2		
APPLICANT(S) FOR DO/EO/US     Samuel R. Denmeade, John Tod Isaacs, and Hans Lilja		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a submission under 35 U.S.C. 371.		
2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. 371.		
3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371 (f)). The submission must include items (5), (6), (9) and (21) indicated below.		
4. <input checked="" type="checkbox"/> The US has been elected (Article 31).		
5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371 (c)(2))		
a. <input checked="" type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).		
b. <input checked="" type="checkbox"/> has been communicated by the International Bureau.		
c. <input checked="" type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).		
6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371 (c)(2)).		
a. <input type="checkbox"/> is attached hereto.		
b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).		
7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))		
a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).		
b. <input type="checkbox"/> have been communicated by the International Bureau.		
c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.		
d. <input checked="" type="checkbox"/> have not been made and will not be made.		
8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)).		
9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).		
10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).		
<b>Items 11 to 20 below concern document(s) or information included:</b>		
11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.		
12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.		
13. <input checked="" type="checkbox"/> A preliminary amendment.		
14. <input checked="" type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.		
15. <input type="checkbox"/> A substitute specification.		
16. <input checked="" type="checkbox"/> A power of attorney (copy).		
17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.		
18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4).		
19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).		
20. <input checked="" type="checkbox"/> Other items or information:     PCT Request (Form PCT/RO/101) including replacement sheet 2 of the Request; Copy of Published PCT Application No. WO 2004/046169 A2; Form PCT/ISA/202; Form PCT/ISA/203; Form PCT/ISA 220; Form PCT/IB/301; Form PCT/IB/304; Form PCT/IB/308; Form PCT/DO/EO/901(a); and Return Receipt Postcard		

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. APPLICATION NO. (if known, see 37 CFR 1.5) <b>10/535351</b>		INTERNATIONAL APPLICATION NO. US03/36880		ATTORNEY'S DOCKET NUMBER 58398 (52607)	
The following fees have been submitted				CALCULATIONS	PTO USE ONLY
21.	<input checked="" type="checkbox"/> Basic national fee	\$300		\$ 300.00	
22.	<input checked="" type="checkbox"/> Examination fee				
If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4)..... \$100					
All other situations ..... \$200				\$ 200.00	
23.	<input checked="" type="checkbox"/> Search fee				
Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority..... \$100					
International Search Report prepared and provided to the Office..... \$400					
All other situations..... \$500				\$ 500.00	
<b>TOTAL OF 21, 22 and 23 =</b>				\$ 1,000.00	
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.					
Total Sheets	Extra sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE		
48 - 100 =	/50 =		x \$250.00		
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492 (e)).				\$	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE		
Total claims	75 - 20 =	55	x 50.00	\$ 2,750.00	
Independent claims	2 - 3 =		x	\$ 0.00	
MULTIPLE DEPENDENT CLAIM(s) (if applicable)			+ 360.00	\$	
<b>TOTAL OF ABOVE CALCULATIONS =</b>				\$ 3,750.00	
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.				\$ 1,875.00	
<b>SUBTOTAL =</b>				\$ 1,875.00	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492 (f)).				+	\$
<b>TOTAL NATIONAL FEE =</b>				\$ 1,875.00	
Fee for recording the enclosed assignment (37 CFR 1.21 (h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property				+	\$
<b>TOTAL FEES ENCLOSED =</b>				\$ 1,875.00	
				Amount to be refunded:	\$
				Amount to be charged:	\$
<p>a. <input type="checkbox"/> A check in the amount of \$ _____ to cover the above fees is enclosed.</p> <p>b. <input checked="" type="checkbox"/> Please charge my Deposit Account No. <u>04-1105</u> in the amount of \$ <u>1,875.00</u> to cover the above fees. A duplicate copy of this sheet is enclosed.</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>04-1105</u>. A duplicate copy of this sheet is enclosed.</p> <p>d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. <b>Credit card information should not be included on this form.</b> Provide credit card information and authorization on PTO-2038.</p> <p><b>NOTE:</b> Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137 (a) or (b)) must be filed and granted to restore the International Application to pending status.</p> <p>SEND ALL CORRESPONDENCE TO:</p> <p>Peter F. Corless EDWARDS &amp; ANGELL, LLP P.O. Box 55874 Boston, Massachusetts 02205 (617) 439-4444 CUSTOMER NUMBER: 21874</p> <p style="text-align: right;">               SIGNATURE: Jennifer K. Rosenfield              NAME              date: 5/18/05              53,531              REGISTRATION NUMBER         </p>					

Application No. (if known): Not Yet Assigned

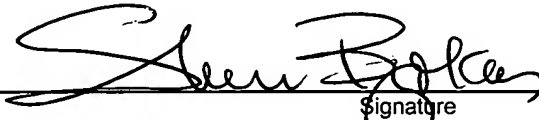
Attorney Docket No.: 58398 (52607)

## Certificate of Express Mailing Under 37 CFR 1.10

I hereby certify that this correspondence is being deposited with the United States Postal Service as Express Mail, Airbill No. EV 492 339 990 US in an envelope addressed to:

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Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

on 18 May 2005  
Date



Signature

Sharon Bizokas

Typed or printed name of person signing Certificate

Registration Number, if applicable

(617) 439-4444

Telephone Number

Note: Each paper must have its own certificate of mailing, or this certificate must identify each submitted paper.

Transmittal Letter to the United States Designated-Elected Office  
Fee Transmittal (1 page)  
Application Data Sheet  
Preliminary Amendment (13 pages)  
Copy of International Application as filed  
Copy of PCT Power of Attorney (2 pages)  
PCT Request (Form PCT/RO/101) including replacement sheet 2 of the  
Request; Copy of Published PCT Application No. WO 2004/046169 A2);  
Form PCT/ISA/202; Form PCT/ISA/203; Form PCT/ISA 220; Form  
PCT/IB/301; Form PCT/IB/304; Form PCT/IB/308; Form  
PCT/DO/EO/901(a); and Return Receipt Postcard  
Charge \$1,875.00 to deposit account 04-1105

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Effective on 12/08/2004. Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818). <b>FEE TRANSMITTAL</b> <b>For FY 2005</b>		<b>Complete if Known</b> Application Number <b>10/535351</b> Filing Date <b>Not Yet Assigned</b> First Named Inventor <b>Samuel R. Denmeade</b> Examiner Name <b>Not Yet Assigned</b> Art Unit <b>N/A</b> Attorney Docket No. <b>58398 (52607)</b>	
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27			
<b>TOTAL AMOUNT OF PAYMENT</b> (\$) <b>1,875.00</b>			

<b>METHOD OF PAYMENT</b> (check all that apply)	
<input type="checkbox"/> Check <input type="checkbox"/> Credit Card <input type="checkbox"/> Money Order <input type="checkbox"/> None <input type="checkbox"/> Other (please identify): _____	
<input checked="" type="checkbox"/> Deposit Account    Deposit Account Number: <b>04-1105</b> Deposit Account Name: <b>Edwards &amp; Angell, LLP</b>	
For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)	
<input checked="" type="checkbox"/> Charge fee(s) indicated below	<input type="checkbox"/> Charge fee(s) indicated below, except for the filing fee
<input checked="" type="checkbox"/> Charge any additional fee(s) or underpayment of fee(s) under 37 CFR 1.16 and 1.17	<input checked="" type="checkbox"/> Credit any overpayments

<b>FEE CALCULATION</b>																																					
<b>1. BASIC FILING, SEARCH, AND EXAMINATION FEES</b>																																					
Application Type	Fee (\$)	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)																													
		Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)																														
Utility	300	150	500	250	200	100																															
Design	200	100	100	50	130	65																															
Plant	200	100	300	150	160	80																															
Reissue	300	150	500	250	600	300																															
Provisional	200	100	0	0	0	0																															
<b>2. EXCESS CLAIM FEES</b>																																					
								<b>Small Entity Fee (\$)</b>																													
Fee Description								<b>Fee (\$)</b>																													
Each claim over 20 (including Reissues)								50																													
Each independent claim over 3 (including Reissues)								200																													
Multiple dependent claims								360																													
<table border="0"> <tr> <td><b>Total Claims</b></td> <td><b>Extra Claims</b></td> <td><b>Fee (\$)</b></td> <td><b>Fee Paid (\$)</b></td> <td><b>Multiple Dependent Claims</b></td> <td><b>Fee (\$)</b></td> <td><b>Fee Paid (\$)</b></td> </tr> <tr> <td>75</td> <td>- 20 =</td> <td>55</td> <td>x 25.00 =</td> <td>1,375.00</td> <td></td> <td></td> </tr> </table>								<b>Total Claims</b>	<b>Extra Claims</b>	<b>Fee (\$)</b>	<b>Fee Paid (\$)</b>	<b>Multiple Dependent Claims</b>	<b>Fee (\$)</b>	<b>Fee Paid (\$)</b>	75	- 20 =	55	x 25.00 =	1,375.00																		
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2	- 3 =																																				
<b>3. APPLICATION SIZE FEE</b>																																					
If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).																																					
<table border="0"> <tr> <td><b>Total Sheets</b></td> <td><b>Extra Sheets</b></td> <td><b>Number of each additional 50 or fraction thereof</b></td> <td><b>Fee (\$)</b></td> <td><b>Fee Paid (\$)</b></td> </tr> <tr> <td>48</td> <td>- 100 =</td> <td></td> <td>/50 (round up to a whole number) x</td> <td></td> </tr> </table>								<b>Total Sheets</b>	<b>Extra Sheets</b>	<b>Number of each additional 50 or fraction thereof</b>	<b>Fee (\$)</b>	<b>Fee Paid (\$)</b>	48	- 100 =		/50 (round up to a whole number) x																					
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48	- 100 =		/50 (round up to a whole number) x																																		
<b>4. OTHER FEE(S)</b>																																					
<table border="0"> <tr> <td colspan="4">Non-English Specification, \$130 fee (no small entity discount)</td> <td></td> </tr> <tr> <td colspan="4">Other (e.g., late filing surcharge):</td> <td></td> </tr> <tr> <td>1631 Basic National Stage fee</td> <td></td> <td></td> <td></td> <td>150.00</td> </tr> <tr> <td>1633 National Stage Examination Fee - all other ...</td> <td></td> <td></td> <td></td> <td>100.00</td> </tr> <tr> <td>1632 National Stage Search Fee - all other situations</td> <td></td> <td></td> <td></td> <td>250.00</td> </tr> <tr> <td>1615 National Stage claims - extra total (over twenty)</td> <td></td> <td></td> <td></td> <td>1375.00</td> </tr> </table>								Non-English Specification, \$130 fee (no small entity discount)					Other (e.g., late filing surcharge):					1631 Basic National Stage fee				150.00	1633 National Stage Examination Fee - all other ...				100.00	1632 National Stage Search Fee - all other situations				250.00	1615 National Stage claims - extra total (over twenty)				1375.00
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<b>SUBMITTED BY</b>			
Signature		Registration No. (Attorney/Agent)	53,531
Name (Print/Type)	Jennifer K. Rosenfield	Telephone	(617) 439-4444
		Date	May 18, 2005
I hereby certify that this correspondence is being deposited with the U.S. Postal Service as Express Mail, Airbill No. EV 492 339 990 US, in an envelope addressed to: MS PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.			
Dated: May 18, 2005	Signature:  (Sharon Bizokas)		